

1 What is claimed is:

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3 1. A drum type washing machine comprising:
4 a cabinet forming an exterior;
5 a tub provided in the cabinet to have a front opening and to hold water, and detergent
6 therein;

7 a motor in rear of the tub 200 to have a horizontally installed rotational shaft;
8 a drum in the tub to be rotated by the motor; and
9 a vibration attenuating means comprising:

10 a damper unit under the tub to attenuate vertical and horizontal vibrations of
11 the tub; and

12 an elastic member over the tub to attenuate a front-to-rear vibration of the tub.

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14 2. The drum type washing machine as claimed in claim 1, wherein the damper
15 unit is installed at right and left sides under the tub.

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17 3. The drum type washing machine as claimed in claim 2, wherein the damper
18 unit is installed at a middle portion between front and rear sides under the tub.

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20 4. The drum type washing machine as claimed in claim 1, wherein the elastic
21 member is installed at front and rear sides over the tub.

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23 5. The drum type washing machine as claimed in claim 4, wherein the elastic
24 member is installed at a middle portion between right and left sides over the tub.

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26 6. The drum type washing machine as claimed in claim 5, the cabinet
27 comprising:

28 a base plate installed as a bottom of the cabinet;
29 a pair of side plates on both sides of the base plate;
30 a rear plate in rear of the base plate and the side plates;
31 a front plate in front of the base plate and the side plates; and
32 a top plate on the side, rear, and front plates.

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34 7. The drum type washing machine as claimed in claim 6, the elastic member
35 comprising:

36 a front spring having one end connected to an upper front side of the tub to extend in
37 an upper front direction and the other end connected to a lower front side of the top plate; and
38 a rear spring having one end connected to an upper rear of the tub to extend in an
39 upper rear direction and the other end connected to a lower rear side of the top plate.

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41 8. The drum type washing machine as claimed in claim 6, the elastic member
42 comprising:

43 a front spring having one end connected to an upper front side of the tub to extend in
44 an upper front direction and the other end connected to a lower front side of the top plate; and
45 a rear spring having one end connected to an upper rear of the tub to extend in an
46 upper rear direction and the other end connected to an upper side of the rear plate.

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48 9. The drum type washing machine as claimed in claim 6, the elastic member

49 comprising:

50 a front spring having one end connected to an upper front side of the tub to extend in
51 an upper front direction and the other end connected to an upper side of the front plate; and
52 a rear spring having one end connected to an upper rear of the tub to extend in an
53 upper rear direction and the other end connected to a lower rear side of the top plate.

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55 10. The drum type washing machine as claimed in claim 6, the elastic member
56 comprising:

57 a front spring having one end connected to an upper front side of the tub to extend in
58 an upper front direction and the other end connected to an upper side of the front plate; and
59 a rear spring having one end connected to an upper rear of the tub to extend in an
60 upper rear direction and the other end connected to an upper side of the rear plate.

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62 11. The drum type washing machine as claimed in claim 6, the tub comprising a
63 connecting member at the upper front and rear sides to have the elastic member connected
64 thereto.

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